



CATALOGUE AND PRICE LIST

LANSING
WHEELBARROW
COMPANY



ILLUSTRATED



E. W. SPARROW,
President.

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Vice President.

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Sec'y and Treasr.

CATALOGUE No. 5

Lansing Wheelbarrow Co.

LANSING, MICH., U. S. A.

MANUFACTURERS OF

WHEELBARROWS, WAREHOUSE TRUCKS, LAND ROLLERS,

CARTS, ETC.

LANSING:
DAVID D. THORP, PRINTER AND BINDER.
1894.

OFFICE OF

Lansing Wheelbarrow Co.

LANSING, MICH., Nov. 1st, 1893.

To the Trade:

We call the attention of our customers and friends to the very complete line of wheelbarrows, warehouse trucks and hand carts illustrated and described in this catalogue. This Company was organized in 1881, manufacturing at that time but three styles of wheelbarrows, and the fact that we are now the largest manufacturers in the country is sufficient evidence of the excellent quality of the goods we make.

As we go to press we are in receipt of information that we have received a medal for excellence of our exhibit at the World's Columbian Exposition.

Many of the goods shown in this catalogue are not ordinarily kept in stock by the trade. At the same time a dealer is liable to have a call for them at any time and will find it advantageous to *have this catalogue conveniently at hand.*

In ordering goods specify the figure and number, or size, by which an article is designated, and *do not mutilate this catalogue.* In connection with the price and list of goods is a cipher word for nearly every article we manufacture, which, together with the Cipher Code, on page 2, will save much expense and inconvenience in telegraphic correspondence.

Prices and terms will be furnished to the trade on application. The list prices herein supersede those in our former catalogues.

Thanking the trade for the comments and criticisms which have stimulated us in our efforts more nearly to meet its requirements, as well as for the liberal patronage enjoyed, we are pleased to present this volume with our compliments.

LANSING WHEELBARROW CO.

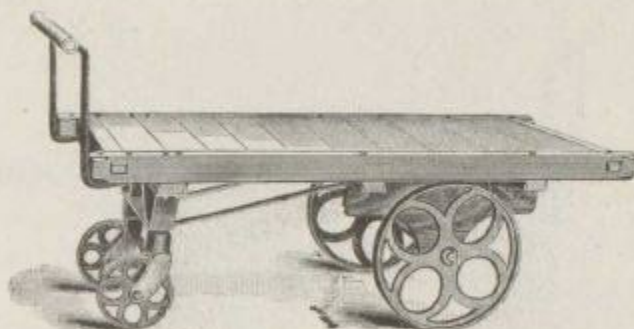


Fig. 40.

THE REYNOLDS IMPROVED

Mill, Factory, Baggage and Warehouse Trucks.

This truck will be found especially adapted to the wants of Merchants, Millers and Warehousemen. Jobbers in almost any line will find by its use a great saving of time and expense. We make them to fit elevators or scales, and thus do away with transferring from truck to elevator or scales, and *vice versa*.

Nicely painted and striped, or oiled and varnished.

The Reynolds Improved Truck has many points of excellence and superiority over the common truck, as will be readily seen by comparison.



Fig. 51.

The front wheels being casters, the truck *will turn in its own length* and can be run on elevator or scales from any angle. The running gear is so arranged that it can be run on any dormant warehouse scale of one ton capacity. The wheels are so large in diameter, and so much of the weight of the load comes directly over them, that one man can carry twice as much on it as upon any other truck made; and as instead of the ordinary rigid rest in front, there are two castor wheels, the operator can turn truck in any direction with great ease. As it requires but one man to operate it, it can readily be seen that the saving in labor would soon pay for the truck. We have many testimonials from parties who have them, pronouncing them the best thing of the kind they have ever used. For making up orders and unpacking goods it is almost indispensable. *We make trucks any size to suit elevators.* We keep in stock twenty-one sizes of these trucks, with 12, 18 and 24 inch wheels and 6, 9 and 12 inch casters; with iron or wood racks for wholesale houses, factories, etc., and also with boxes made with sides to let down, or with removable ends and sides.

Nearly every one purchasing the Reynolds Improved Truck write us after the tenor of the few letters below:

From W. J. Gould & Co., Wholesale Grocers, Detroit, Mich.:

"We have used one of the Reynolds Improved Mill, Warehouse and Merchant's Trucks for some time past. It will do all that is claimed for it; will turn in its own length, run on and off the elevator from any angle, and one man has handled it easily when loaded with 1,875 lbs. Our men are enthusiastic in its praise, and think they cannot get along in the warehouses without it. We cheerfully recommend it as being the most complete warehouse truck we have ever seen."

O. J. King, Retail Grocer, Lincoln, Nebraska:

"I am very much pleased with the style and working of the Reynolds Truck shipped me last spring. I cannot see any way to improve it. We frequently load 1,000 pounds (light truck) upon it, and can turn around nicely between counters and angles about store."

Blish, Mice & Silliman, Wholesale Hardware, Atchison, Kansas:

"The Reynolds Improved Truck we bought of you last spring is the best truck of the kind we have ever used. It is durable, and runs very light and easy."

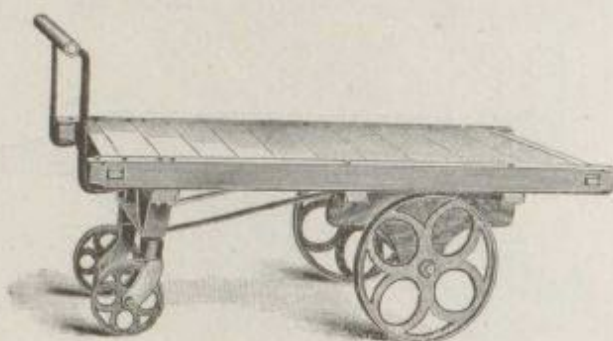


Fig. 40.

THE REYNOLDS IMPROVED

Mill, Factory and Warehouse Trucks.

SIZES OF REYNOLDS' IMPROVED TRUCKS KEPT IN STOCK.

Any Size Made to Order.

No.	Telegraph Name.	Size of Platform, in feet.	Size over all, in feet.	Diameter of Wheels, inches.	Diameter of Casters, inches.	Capacity in lbs.	Weight lbs.	Price each.
0	Madam.....	2 x 3	2 x 3½	12	6	1,200	115	\$24 00
1	Madcap.....	2 x 4	2 x 4½	12	6	1,200	120	25 00
3	Madder.....	2½ x 4	2½ x 4½	12	6	1,200	130	26 10
4	Margo.....	2 x 5	2 x 5½	12	6	1,200	130	26 10
5	Mastiff.....	3 x 4	3 x 4½	12	6	1,200	140	27 00
6	Manna.....	2½ x 5	2½ x 5½	12	6	1,200	140	27 00
8	Magic.....	3 x 5	3 x 5½	12	6	1,200	155	29 25
9	Major.....	2 x 4	2 x 4½	18	9	3,000	200	30 00
11	Mallet.....	2½ x 4	2½ x 4½	18	9	3,000	210	31 50
13	Maroon.....	2½ x 4½	2½ x 4½	18	9	3,000	220	32 25
15	Marvel.....	3 x 4	3 x 4½	18	9	3,000	225	33 00
16	Marten.....	2½ x 5	2½ x 5½	18	9	3,000	225	33 00
18	Morbid.....	2 x 5	2 x 5½	18	9	3,000	220	32 25
19	Morsel.....	2 x 6	2 x 6½	18	9	3,000	220	33 00
20	Mosaic.....	2½ x 6	2½ x 6½	18	9	3,000	235	34 50
21	Modify.....	3 x 5	3 x 5½	18	9	3,000	240	35 25
22	Monitor.....	3 x 6	3 x 6½	18	9	3,000	250	36 00
23	Martyr.....	3 x 8	3 x 8½	18	9	3,000	290	40 00

FACE OF WHEELS AND CASTERS.

Trucks numbered 0 to 8 inclusive, have casters with 1½ inch tread, wheels 2 inch tread.

Trucks numbered 9 to 23 inclusive, have casters with 1½ inch tread, wheels 2½ inch tread.

Trucks numbered 9 to 23 inclusive, with heavy casters with 2½ inch tread, wheels 3½ inch tread, are \$2 extra per truck advance on above prices.

RUBBER TIRED WHEELS

Trucks numbered 1 to 8 inclusive, with grooved wheels and casters, with round rubber tires sprung into groove. Price \$8 extra per truck.

Trucks numbered 1 to 8 inclusive, with patent rubber tired wheels and casters. Price \$12 extra per truck. (Wheels shown on page 75.)

Trucks numbered 9 to 23 inclusive, with patent rubber tired wheels and casters. Price \$24 extra per truck.

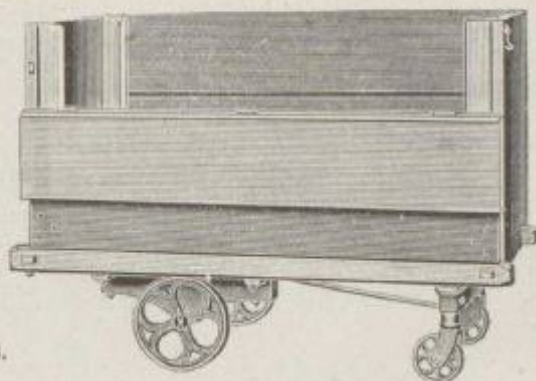


Fig. 53.

REYNOLDS' PAPER PULP OR FISH TRUCK

Box of 1½ in. wood bolted to truck; one side made to let down as shown in cut. Made very strong. Oiled or painted. Made to order, any size.



Fig. 54.

REYNOLDS' PATENT TRUCK

With Box.

We keep in stock boxes 20 in. high to fit all regular sizes of Reynolds' Trucks. Box can be removed in a moment if desired. Capacity of box on No. 16 truck, 16 to 20 bushels. This truck is designed to dump by lifting on handle. Price, \$4.50 advance on list prices on page 24.

REYNOLDS' IMPROVED PRINTING HOUSE TRUCK



Used to put forms on, and to run them to press-room. Also used by electrotypers.

Price, \$5.00 advance over list prices on page 24.

Fig. 58.

REYNOLDS' IMPROVED TRUCK

With Wood Racks

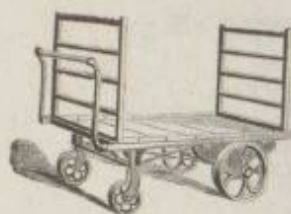


Fig. 56.

Racks 30 inches high and easily removable are kept in stock for all regular sizes of Reynolds' Trucks. Racks made for sides if ordered.

Price \$1.50 extra per rack over list prices on page 24.

REYNOLDS' IMPROVED TRUCK, WITH IRON RACKS

Same shape as Fig. 56 above. Racks 30 inches high and stationary, unless otherwise ordered.

Price \$3 extra per rack over list prices on page 24.

REYNOLDS' IMPROVED TANNERY AND LEATHER TRUCK

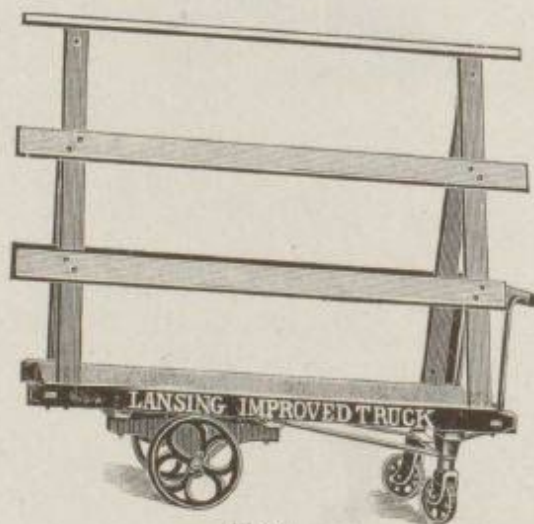


Fig. 57.

We make these horses any height and mount them on any size truck. They will carry a very heavy load. Made with any number of side bars to suit purchaser. This is by far the best tannery truck in the market.

Price \$6.00 advance over list prices on page 24.

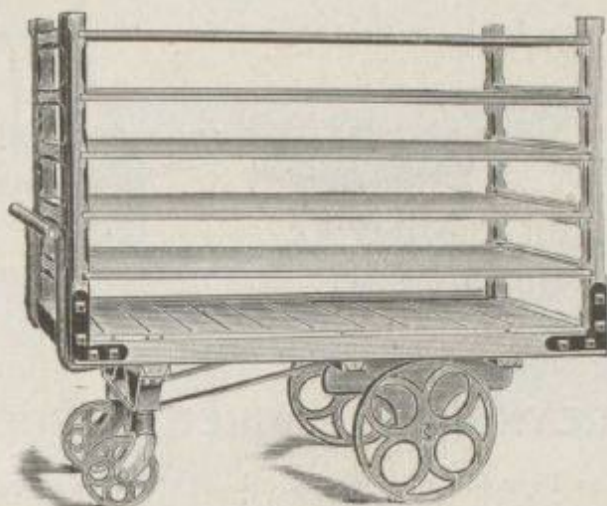


Fig. 52.

REYNOLDS' MEAT TRUCK

A variety of the Reynolds Truck used in packing houses and butcher shops for keeping meat in shape in handling. The truck with load can often be run into the refrigerator and meat left on truck while it is cooling.

Decks are made very strong of one inch oak, either stationary or adjustable, to suit purchaser. Same sizes as Reynolds' Trucks. To obtain list price add to price of Reynolds Truck \$1.20 for each shelf. (List of Reynolds' Trucks, page 24.)

Telegraph name, Mayor.

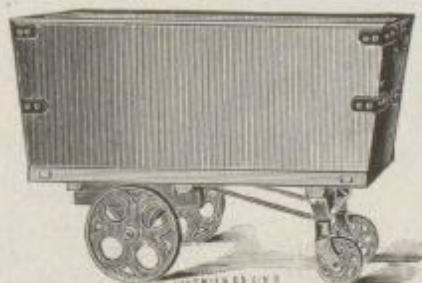


Fig. 53.

REYNOLDS' SAUSAGE OR MIXING TRUCK.

This is a Reynolds Truck with special box for carrying sausage or scraps of meat in packing houses. Made any size to suit customers. (See list of Reynolds' Trucks, page 24.)

Box 18 in. deep, made of 1½ in. linn or basswood; flare of box at top, 6 in.

Price same as Reynolds' Trucks, with box, \$4.50 each (list price) extra.

Telegraph name, Medley.

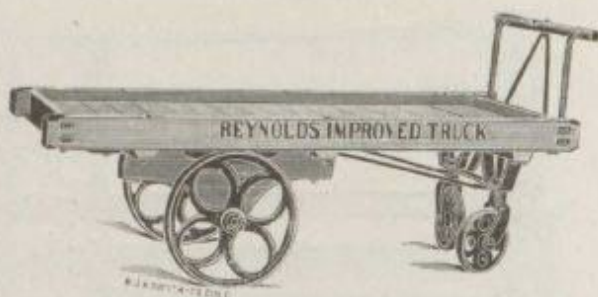


Fig. 59.

REYNOLDS' PACKERS TRUCK

Made same as Reynold's Improved Truck except with edges of frame beveled and raised two inches above platform to prevent meat from slipping off.

Price same as Reynolds' Improved Truck, see list on page 24.

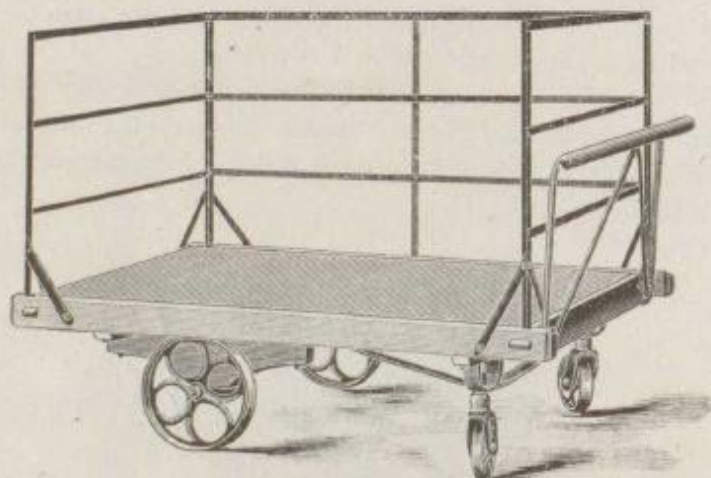


Fig. 64.

BAKERS' CAN TRUCK

This style of Reynolds' Truck is used by bakers for carrying the boxes or cans of fancy crackers, biscuits, etc.

It is in use in the larger bakeries and should be used in all.

The rack is light, made of $\frac{3}{4}$ inch angle iron with $1 \times \frac{1}{2}$ inch cross strips. Made any size to suit purchaser.

To obtain price, add to list price of Reynolds' Truck (see page 24) \$7 for the rack.

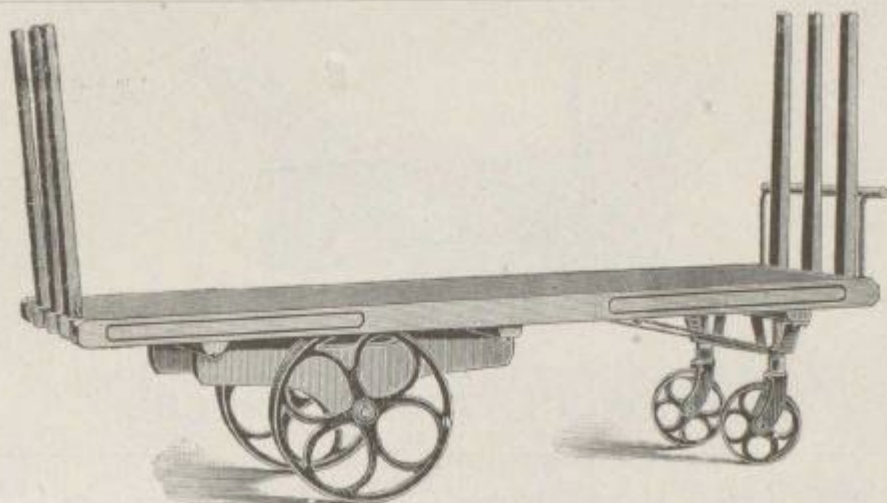


Fig. 81.

REYNOLDS' IMPROVED DEPOT TRUCK

These trucks have all the improvements on the old style trucks that are embodied in the Reynolds' Warehouse Trucks. All roads that have adopted them prefer them to the four-wheeled express wagons, as they turn in their own length, are easily guided, carry a large load, and have no tongue that people are in danger of falling over.

No.	Telegraph Name.	Size of Platform, feet.	Diameter of Wheels, inches.	Diameter of Casters, inches.	Weight each, lbs.	Price each.
33	Goldleaf.....	2½ × 8	24	12	300	\$48 00
34	Gosling.....	3 × 8	24	12	360	51 00
35	Granite.....	3 × 10	24	12	400	57 00
36	Gravel.....	4 × 10	24	12	460	63 00

With patent rubber tired wheels, see page 75.

25-inch wheels and 12-inch casters, \$50.00 extra per truck.

20-inch wheels and 10-inch casters, \$35.00 extra per truck.

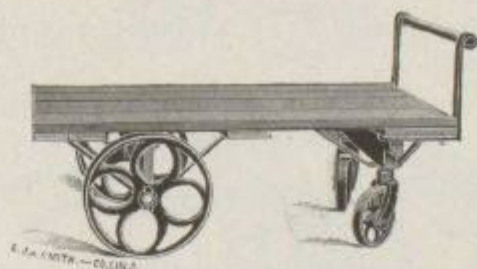


Fig. 76.

GROCERS' TRUCK

To meet the demand for a cheap four-wheeled truck we furnish the Grocers' Truck. They are made in only two sizes, and while not so strong and well made as the Reynolds' they are very serviceable.

No.	Telegraph Name.	Size of Platform.	Diameter of Wheels.	Diameter of Casters.	Weight.	Price each.
1 G	Gimlet.....	2 × 4 ft.	12 in.	6 in.	120 lbs.	\$20 00
21 G	Glory.....	3 × 5 ft.	18 in.	9 in.	200 lbs.	28 00



Fig. 70.

COMMON PLATFORM TRUCKS

No.	Telegraph Name.	Fig.	Size of Platform.	Weight each, lbs.	Diameter of Wheels, inches.	Price each.
82	Gaudy.....	70	2 ft. 4 in. × 3 ft. 4 in.	100	7½	\$14 00
83	Gesture	70	2 ft. 6 in. × 3 ft. 6 in.	115	7½	15 00
84	Garter.....	70	3 ft. 0 in. × 4 ft. 0 in.	125	8½	17 00



A. G. KENTON - CO. D. D. S.

Fig. 61.

HAM AND BACON TRUCK

No. 1. Fig. 61. Size, over all, 2½ × 6 ft. Diameter of wheels, 18 inches.

Telegraph name, Gaffer.

Price, each, \$20

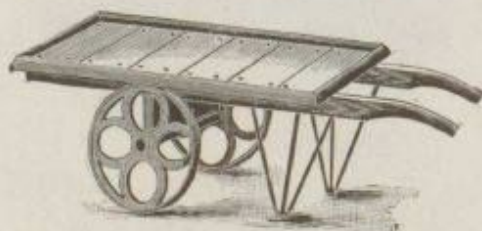


Fig. 63.

HOG TRUCK

No. 2. Fig. 63. Size, over all, 2½ × 5 feet. Diameter of wheels, 18 inches.

Telegraph name, Gastric.

Price, each, \$18.

No. 3. Fig. 63. Size, over all, 2½ × 6½ ft. Diameter of wheels, 18 inches.

Telegraph name, Ginger.

Price, each, \$20.



Fig. 83.

OPEN BOTTOM BAGGAGE WAGON

No.	Telegraph Name.	Fig.	Size, feet.	Diameter of Wheels, inches.	Length of Dash, inches.	Weight, lbs.	Price each.
1	Gaslight	83	2 x 7	18	28	460	\$50 00
2	Gateway	83	2½ x 10	18	35	600	60 00
3	Gathering	83	2½ x 12	18	44	700	70 00

Turned bearings; wheels bored. Made of selected material. Very heavy, strong wagons, built to last.



Fig. 84.

CURVED PATTERN BAGGAGE BARROW

No.	Telegraph Name.	Fig.	Size, feet.	Diameter of Wheels, inches.	Weight, lbs.	Price each.
1	Gawky	84	2 x 7	20	300	\$35 00
2	Gazette	84	2½ x 10	20	350	42 00
4	Grammar	84	2½ x 9½	30	400	60 00

Turned bearings; wheels bored. A convenient barrow. No better barrow of this kind is made.

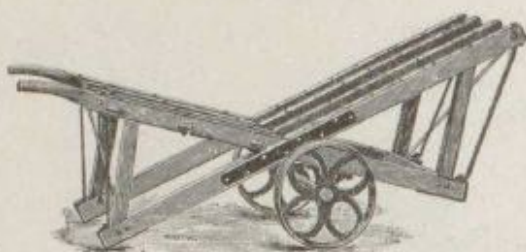


Fig. 82.

BAGGAGE BARROW

These barrows are made of choice hickory or oak, are heavily braced and warranted equal in quality to any similar barrows made.

Wheels are solid grey iron bored for axles and axles turned.

No.	Telegraph Name.	Size, feet.	Diameter of Wheel, inches.	Tread of Wheels, inches.	Weight, lbs.	Price, each.
1	Glowing	2 x 4	18	2½	215	\$35 00
2	Glassy	2½ x 8½	20	2½	280	40 00
3	Gallows	2½ x 10	20	2½	340	45 00

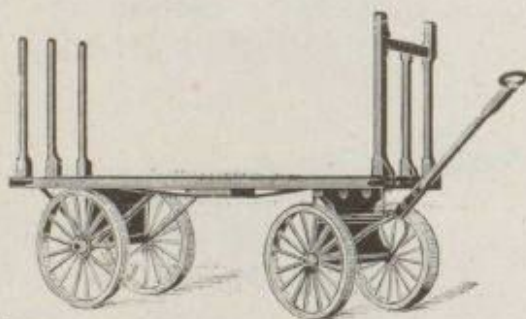


Fig. 80.

RAILROAD AND EXPRESS WAGONS

Size 1. Telegraph name, Gender.

These are the Standard Express Trucks, same as used by the American Express Co. They are heavily ironed and well made from steel and iron and selected hardwood. With 20 in. fifth wheel. Front wheels 28 in. in diameter. Rear wheels 32 in. in diameter. Platform 35 in. high. Platform 40 in. wide and 10 ft. long. Nicely painted red and green and varnished. Furnished with Express wheels. (See page 80.)
Weight about 675 lbs. Price, \$100 each.

Size 2. Telegraph name, Gizzard.

This wagon is designed to meet the want of a smaller size than No. 1. Just the truck for small passenger stations. Well painted and varnished. With 20 in. wrought spoke wheels. Platform 2½ by 7 ft. All bearings turned.
Weight about 400 lbs.

Price, \$60 each.



Fig. 72.

COMMON DRY GOODS TRUCK

Light Pattern.

Common Dry Goods Trucks are firmly bolted together and have forged axles and turned bearings. Furnished with patent rubbered wheels (see page 75) for \$6.00 extra.

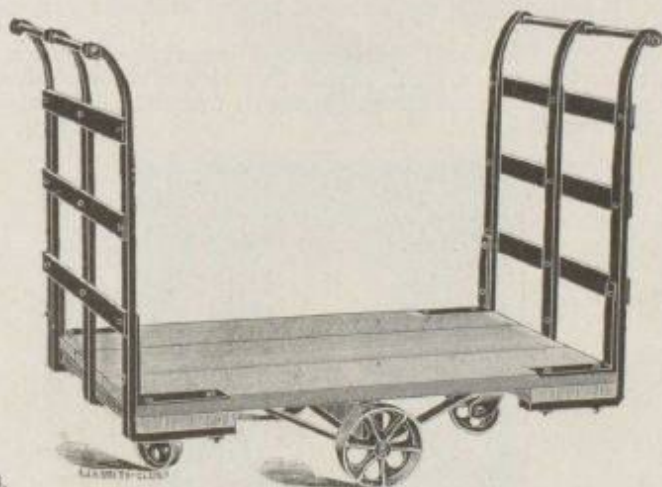


Fig. 73.

COMMON DRY GOODS TRUCK

Heavy Pattern.

	Telegraph Name.	Platform.	Diameter Wheels.	Diameter Swivels.	Weight.	Price.
Fig. 72..	Garland.....	28 x 42 in.	7½ in.	4 in.	160 lbs.	\$20 00
Fig. 73..	Grumble.....	28 x 42 in.	7½ in.	4 in.	190 lbs.	22 00

WAGON TRUCK

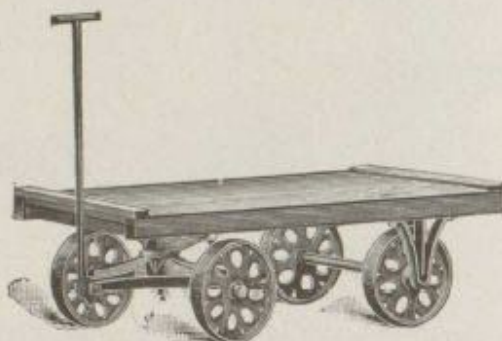


Fig. 71.

Made of oak. Extra heavy and substantial. Axles $1\frac{1}{2}$ in. round, iron.

No. 1, Fig. 71; telegraph name, Garnish; diameter wheels, 10 inches; weight, 240 lbs.; price, each, \$28.

No. 2, Fig. 71; telegraph name, Garret; diameter wheels, 14 inches; weight, 275 lbs.; price, each, \$30.

Both above trucks have platforms 3×5 feet.

SHEET METAL TRUCK

Same as No. 2 Wagon Truck, except platform $2\frac{1}{2} \times 7$ ft. Long enough so that light sheets will not sag at ends. Diameter of wheels 14 in. Axles $1\frac{1}{2}$ in. round, iron. Turned bearings.

Telegraph name, Groan.

Price, each, \$45.

BAR IRON TRUCK

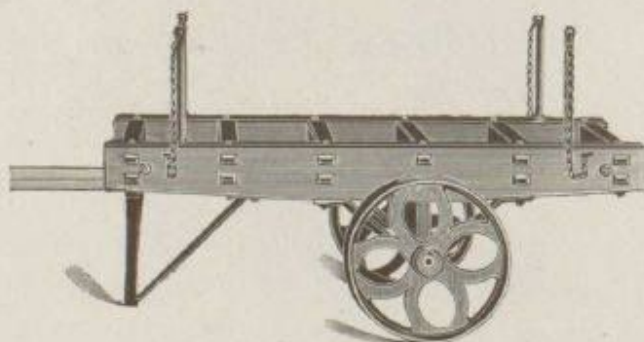


Fig. 77.

For carrying iron bars or rods. Size of frame 2×5 ft. Furnished with 18 in. solid iron wheels, $3\frac{1}{2}$ in. tread, wide enough so a very heavy load will not cut floors. Truck will stand on 3 ft. platform scale. Platform of truck well ironed.

Telegraph name, Glutton.

Price, each, \$50.

HEAVY FOUNDRY WAGONS



Fig. 60.

These trucks are designed for foundry and machine shop use or where a very strong platform truck is required. The truck is furnished with fifth wheel large enough to avoid upsetting. It will be noticed by the above cut that the platform is made of 3 in. hardwood planks. The entire edge of platform is bound with iron, making a platform of great strength and durability. Axles, 2 in. square.

Size 1. 30 x 40 in.; 10½ in. wheels; 4 in. face. Telegraphic cipher, Glad. List price, \$32.00.

Size 2. 36 x 60 in.; 10½ in. wheels; 4 in. face. Telegraphic cipher, Glance. List price, \$38.00.

Any size made to order.

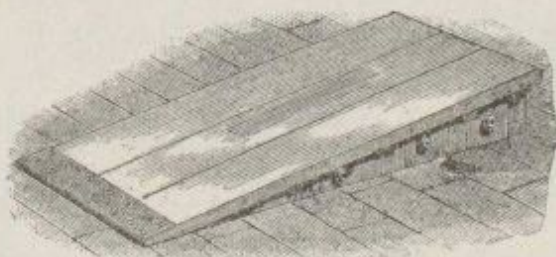


Fig. 125.

RUNWAY

Made of 1½ in. well seasoned hardwood lumber. Any length made to order. In ordering give height of raise desired. Width, 3 ft.

Telegraph name, Runway.

Price per foot in length, \$1.50.

FURNITURE TRUCK

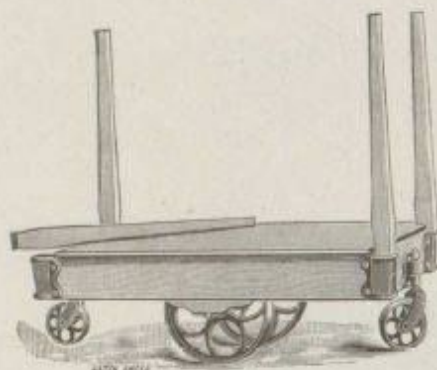


Fig. 85.

Made of hardwood, with either adjustable or stationary stakes, or with stakes on sides, as preferred. Sides of 2 in. stuff dressed. Stakes of rock elm, oak or hickory. Platform of 1 in. maple or oak dressed. Turned bearings.

Platform, 2 x 4 ft. inside stakes; casters, 7 in. diameter. Weight, each, 150 lbs.

With 16 in. wheels. Telegraph name, Gangway. Price, per dozen, \$144.

With 12 in. wheels. Telegraph name, Gain-say. Price, per dozen, \$130.

COMMON FACTORY TRUCK

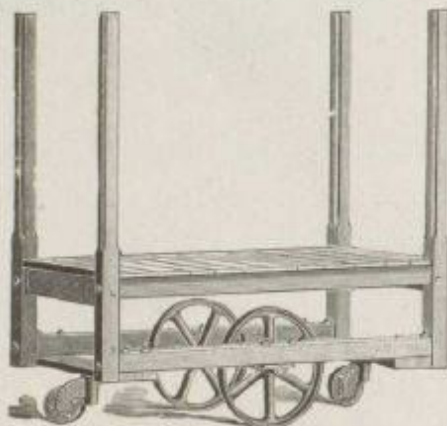


Fig. 86.

Any size made to order. The following sizes are kept in stock;

No. 1. Telegraph name, Grandson; platform, $1\frac{1}{2} \times 3$ ft.; 8 in. wheels. Price, per dozen, \$100. Iron work only \$72 doz.

No. 2. Telegraph name, Granger; platform, 2 x 4 ft.; 12 in. wheels. Price, per dozen, \$120. Iron work only, \$84 doz.

LITTLE GIANT TRUCK

For shoe and other light boxes.

Length of handles, 56 in.; width at nose, $10\frac{1}{2}$ in.; diameter of wheels, $3\frac{1}{2}$ in. Weight, 12 lbs.

Packed for export, 3 doz. measure 12 cu. ft.

Telegraph name, Giant.

Price, each, \$3.



Fig. 88.

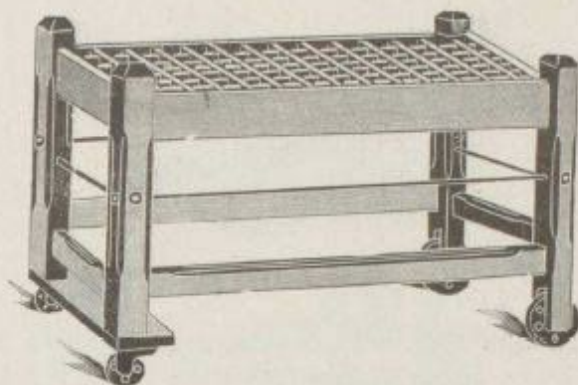


Fig. 100.

BOTTLE DRAINING TRUCK

The strongest and best truck of the kind manufactured. Length inside, 48 in.; width inside, 24 in. Height of slats from floor, 26 in. Made with heavy casters and 6 in. wheels on ends of posts. Heavy frame work of well-seasoned hardwood.

Telegraph name, Frolic.

Price, each, \$30.

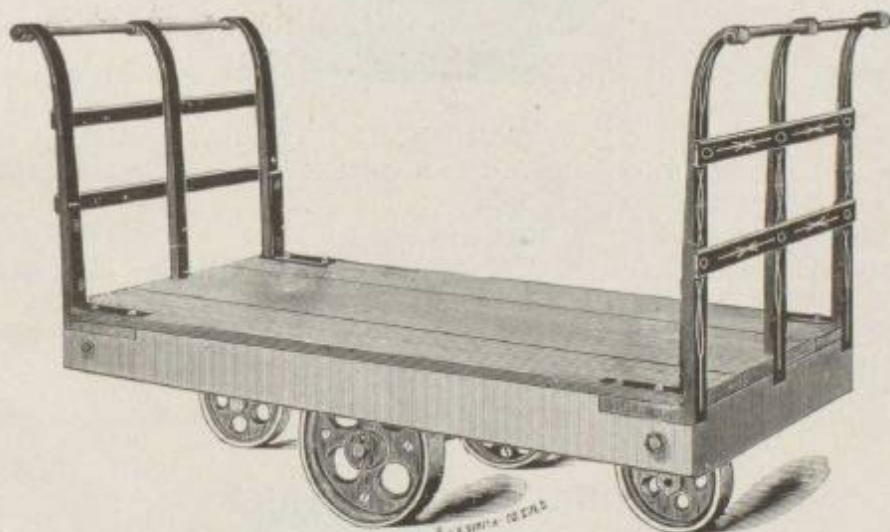


Fig. 89.

POSTOFFICE TRUCK

A very heavy truck with 12 in. wheels at sides, and 9 in. wheels in stationary casters at ends. Platform, $2\frac{1}{2} \times 5\frac{1}{2}$ ft. Iron racks very heavy and strongly braced, 27 in. high.

If with patent rubbered wheels,

Telegraph name, Gravy.

Price, each, \$80.

If with iron wheels,

Telegraph name, Greedy.

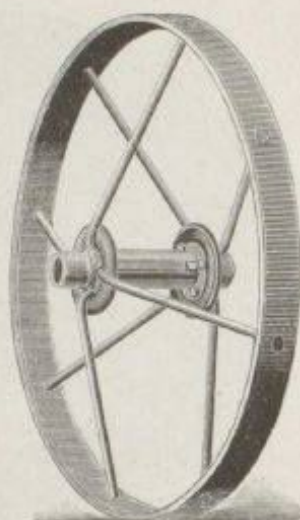
Price, each, \$50.



STEEL WHEELS FOR BARROWS

Fig. 340.

Fig. 341.*



*These wheels turn on bolt through hub.

Symbol.	Telegraph Name.	Figure.	Diameter, inches.	Tread, inches.	Length of Hub between shoulders, inches.	Number of Spokes.	Diameter and Length of Gudgeon, inches.	Barrows on which these Wheels are used.	Price, per doz.
AB	Ignoble *	341	16	1½	6	8	*	Canal Barrows	\$12 00
AS	Image	340	18	1½	6	8	¾ x 1½	Canal Barrows	12 00
BS	Impact	17	1½	6	8	8	¾ x 1½	Tubular Barrows	14 40
GS	Insight	340	18	1½	12	10	¾ x 1½	Globe Barrows, No. 3	20 00
HZ	Incline	340	20	1½	13½	10	¾ x 1½	Globe Barrows, No. 2	20 00
KZ	Income	340	20	1½	15	10	¾ x 1½	Eastern Garden, No. 4	20 00
LS	Incorrect	340	20	1½	16	12	¾ x 1½	Globe Garden, No. 1	20 00
MZ	Indian	16	1½	11	6	6	1 x 1½	A cast iron wheel used on Pittsburgh Open Hearth Barrows.	30 00

WOOD WHEELS FOR BARROWS AND HAND CARTS

Symbol.	Telegraph Name.	Diameter, inches.	Tread, inches.	Length of Hub between shoulders, inches.	Diameter of Gudgeon, inches.	Place where used.	Price, per doz.
W 1	Wabble	16	1½	6	¾	Common Barrows	\$9 00
W 2	Wad	18	1½	6	¾	Lansing and Capital Barrows	9 00
W 3	Wafer	18	1½	6	*	Eureka Barrows, iron hub wheel	12 00
W 4	Waft	18	1½	6	*	Stone Barrows, a very heavy wheel	18 00
W 5	Wager	18	1½	12	9-16	Wharf Barrows	18 00
W 6	Wale	18	1½	13	¾	Sawdust Barrows	18 00
W 7	Waste	18	2	15	¾	Scrap Iron and Light Stave Barrows	30 00
W 8	Walter	30	2	16	¾	Heavy Stave Barrows	30 00
W 9	Walk	16	1½	12	¾	No. 2 Eastern Garden Barrows	15 00
W 10	Wall	18	1½	12	¾	No. 3 Globe Garden Barrows	18 00
W 11	Walnut	20	1½	13½	¾	No. 2 Globe Garden Barrows	18 00
W 12	Web	20	1½	15	¾	No. 4 Eastern Garden Barrows	18 00
W 13	Wedge	20	1½	16	¾	No. 1 Globe Garden Barrows	18 00
W 14	Weed	32	1½	15	¾	No. 5 Eastern Garden Barrows	18 00
W 15	Welcome	30	1½	6	bore of wheels	No. 2 Hand Carts	price pair
W 16	Welfare	36	1	4½	15-16	No. 1 Hand Carts	3 50
W 17	Welkin	42	1	5	1 1-16	No. 0 Hand Carts	4 50
W 20	Witness	48	1½	7½	1 3-16	Heavy Push Carts	5 25

*These wheels revolve on bolt through hub, and are the Lansing Patent Iron Hub Wheels described on page 49. Wheels W 1 S and W 2 S are also made to revolve on bolt through hub when desired.

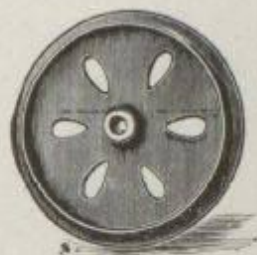


Fig. 330.

CAST IRON FLANGED CAR WHEELS

Symbol.	Telegraph Name.	Diameter in inches, (flange extra).	Face in inches, (flange extra).	Length of Hub, inches.	Size of Bore, inches.	Weight, lbs.	Price, each.
C 1	Ibex	6	1 $\frac{1}{8}$	2 $\frac{1}{4}$	$\frac{1}{2}$	7	\$0 40
C 2	Ice	12	1 $\frac{3}{4}$	2 $\frac{1}{2}$	1 $\frac{1}{16}$	22	1 25
C 6	Ireland	15	2	3 $\frac{1}{2}$	1 $\frac{1}{4}$	51	2 25
C 10	Idea	18	2 $\frac{1}{2}$	3 $\frac{1}{2}$	1 $\frac{1}{4}$	70	3 00
C 12	Idle	18	3	3 $\frac{1}{2}$	1 $\frac{1}{2}$	86	3 75

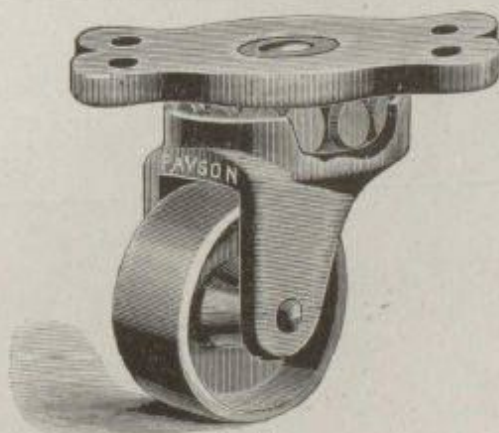


Fig. 331.

PATENT ANTI-FRICTION TRUCK CASTERS

These Casters revolve upon a series of steel rollers or discs, placed in an annular chamber, and carries the weight outside the center of the main wheel. This gives an even bearing upon the circle of discs, and relieves all friction upon the pivot or strain upon the fastening screws. The parts are riveted together firmly, and free access is given to the screws through an opening in the plate, without the inconvenience of taking apart.

Number.	Telegraph Name.	Diameter of Wheel.	Tread of Wheel.	Height over all.	Weight per set.	Size of plate.	Price list per set of four.
186-37	Velvet	1 $\frac{1}{2}$ in.	$\frac{1}{2}$ in.	2 $\frac{1}{2}$ in.	4 lbs.	3 $\frac{1}{2}$ x 2 $\frac{1}{2}$	\$1 15
188	Venom	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	3 $\frac{1}{2}$ "	9 "	4 $\frac{1}{2}$ x 3	2 00
190	Venus	3 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	4 $\frac{1}{2}$ "	14 "	5 x 3 $\frac{1}{2}$	3 00
192	Verb	4 "	2 $\frac{1}{2}$ "	6 "	44 "	6 x 4 $\frac{1}{2}$	10 00
195	Verbose	6 "	3 $\frac{1}{2}$ "	9 "	145 "	9 $\frac{1}{2}$ x 6 $\frac{1}{2}$	25 00



Fig. 360.



Fig. 361.



Fig. 51.

WHEEL WITH PLATE

SWIVELS

CASTERS

Symbol.	Telegraph Name.	Figure.	Height of Bearing from floor.	Diameter Wheel.	Tread Wheel.	Weight, Complete.	List Price, each.
P 2	Vacate.....	360	5½	4	1½	4	\$0 40
P 5	Vaccine.....	360	7½	7	1½	12	75
P 8	Valley.....	360	7½	6	3	19	1 25
S 3	Vampire.....	361	6½	4	1½	7	50
T 2	Vanilla.....	51	8½	6	1½	10	75
T 4	Vanity.....	51	11½	9	1½	19	1 25
T 7	Vase.....	51	11½	9	2½	28	1 75
T 9	Vapor.....	51	15½	12	1½	27	1 75



Fig. 362.

WHEELS AND AXLES

Any of the wheels shown on pages 75, 77, 79 and 80 can be furnished with axles of any kind to suit purchasers. Let us know the number you can use, the weight to be carried, and size of wheels and length of axles between shoulders, so that we may quote intelligently.

CAST IRON TRUCK WHEELS

Symbol.	Telegraph Name.	Diameter, inches.	Face, inches.	Length of Hub, inches.	Size of Bore, inches.	Weight, lbs.	Price, each.
E 2	Willow	3	1 $\frac{1}{2}$	1 $\frac{1}{2}$	$\frac{1}{2}$	1 $\frac{1}{4}$	\$0 20
E 3	Windfall	4	2	2	$\frac{1}{2}$	4	30
E 4	Wrath	4 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	13-16	2 $\frac{1}{2}$	25
E 5	Witch	4 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	$\frac{1}{2}$	1 $\frac{1}{4}$	20
AA	Wench	4 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	$\frac{1}{2}$	2	25
BB	West	4 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	$\frac{1}{2}$	2	25
CC	Weather	5 $\frac{1}{2}$	1 $\frac{1}{2}$	2	$\frac{1}{2}$	3 $\frac{1}{2}$	30
DD	Whale	6	1 $\frac{1}{2}$	1 $\frac{1}{2}$	$\frac{1}{2}$	3	25
EE	* Wheat	6	1 $\frac{1}{2}$	1 $\frac{1}{2}$	9-16	3 $\frac{1}{2}$	25
E 6	Wrinkle	6	3	3 $\frac{1}{2}$	11-16	9	50
E 15	Whist	7 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	$\frac{1}{2}$	5	30
WN	Wine	7 $\frac{1}{2}$	2	2 $\frac{1}{2}$	13-16	6 $\frac{1}{2}$	40
GG	Whether	7	2	2 $\frac{1}{2}$	11-16	6	40
HH	Whig	8 $\frac{1}{2}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$	13-16	9 $\frac{1}{2}$	55
JJ	Whine	9	1 $\frac{1}{2}$	2	13-16	8 $\frac{1}{2}$	50
KK	Whirl	8 $\frac{1}{2}$	2 $\frac{1}{2}$	3 $\frac{1}{2}$	13-16	12	65
LL	Wick	8 $\frac{1}{2}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$	13-16	10	60
E 7	Warrant	8 $\frac{1}{2}$	$\frac{1}{2}$	9-16	$\frac{1}{2}$	4	30
E 8	Wan	8	5	3 $\frac{1}{2}$	1 $\frac{1}{2}$	36	1 75
MM	Wide	9 $\frac{1}{2}$	2 $\frac{1}{2}$	3	15-16	12	70
OO	Widow	9	2 $\frac{1}{2}$	3	13-16	10	60
RR	Wig	10 $\frac{1}{2}$	3	3 $\frac{1}{2}$	1 $\frac{1}{2}$	20	1 00
E 16	Weevil	11	2 $\frac{1}{2}$	3	1 $\frac{1}{2}$	19	1 00
TT	* Wolf	12	2	2 $\frac{1}{2}$	13-16	17	80
UU	Woman	12	3 $\frac{1}{2}$	4 $\frac{1}{2}$	1 $\frac{1}{2}$	24	1 25
E 9	Water	12	5 $\frac{1}{2}$	4	1 $\frac{1}{2}$	76	3 00
E 10	Waddle	14	2 $\frac{1}{2}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	26	1 25
WW	Wonder	15 $\frac{1}{2}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$	$\frac{1}{2}$	25	1 25
XX	Woodbine	18	1 $\frac{1}{2}$	2 $\frac{1}{2}$	1 $\frac{1}{2}$	27	1 50
YY	Ward	18	2 $\frac{1}{2}$	2 $\frac{1}{2}$	1	36	1 75
ZZ	Work	18	3 $\frac{1}{2}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	50	2 25
E 11	Wash	20	2	2 $\frac{1}{2}$	1 $\frac{1}{2}$	30	1 60
E 12	Wax	20	2 $\frac{1}{2}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	48	2 00
E 13	Whiz	20	4 $\frac{1}{2}$	5	1 $\frac{1}{2}$	62	3 00
E 14	World	24	3	3 $\frac{1}{2}$	1 $\frac{1}{2}$	64	3 00

* Wheels EE and TT are furnished with grooved face when so desired. The tread is then 1 in. Price is the same.

HEAVY IRON WHEELS

Telegraph Name.	Diameter, Inches.	Tire, Inches	Length and Bore of Hub.	Size of Spokes Inches.	Price, each.	Place Used.
Envoy.....*	30	$\frac{1}{2} \times 3$	7 $\frac{1}{4}$ in. tapered for 2 in. axle.	$\frac{3}{8}$	\$9 00	Lumber Cart
Estate.....*	44	$\frac{1}{2} \times 3$	7 $\frac{1}{4}$ in. " " " "	$\frac{3}{8}$	12 00	" "
Evade.....	24	$\frac{1}{2} \times 3$	4 in. bored for 1 $\frac{1}{2}$ in. axle.	$\frac{1}{2}$	4 00	
Exile.....	28	$\frac{1}{2} \times 3$	4 in. " " " "	$\frac{1}{2}$	5 00	Stave Wagon
Elegy.....	30	$\frac{1}{2} \times 3$	4 in. " " " "	$\frac{1}{2}$	5 00	" "
Eagle.....	36	$\frac{1}{2} \times 3$	4 in. " " " "	$\frac{1}{2}$	6 00	"

* See page 46 for cut of wheels.

EXPRESS WAGON WHEELS

With heavy oak felloes and best oak spokes; with iron hubs 6 in. long, bored tapering for 1 $\frac{1}{2}$ in. axle. Tread of wheels, 3 $\frac{1}{2}$ in.; diameters, 28 and 31 in. Price, each, \$5.00.

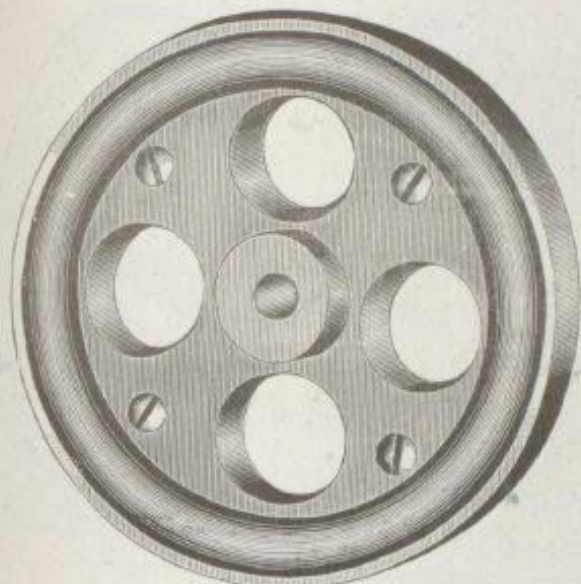


Fig. 255.

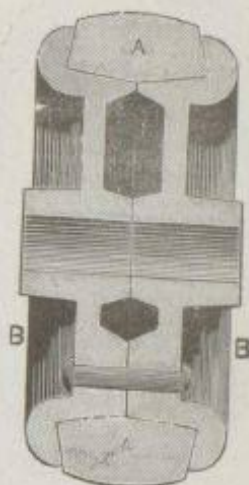


Fig. 256.

A—RUBBER.

PATENT RUBBER TIRED WHEELS

These Wheels are unrivaled for durability, simplicity and cheapness. They are perfectly noiseless, and do not wear the floors perceptibly; can be used on wood, brick and concrete floors with great saving.

They are composed of two compressing metallic discs, which are provided with a section of hub, peripheral flange, and an annular rim of vulcanized rubber, which is mounted on the shoulders of the disc and firmly compressed between their flanges by means of screws, making it easy to replace worn-out rubbers, and yet rendering it utterly impossible for the rubbers to slip off, as was the case with the old methods, which were as follows: One way consisted of springing a ring of rubber on to a grooved wheel; but a movement of the wheel sideways would spring the rubber off as easily as it was put on. The other method consisted in vulcanizing the rubber on; but on being used, the rubber would become loose from the wheel.

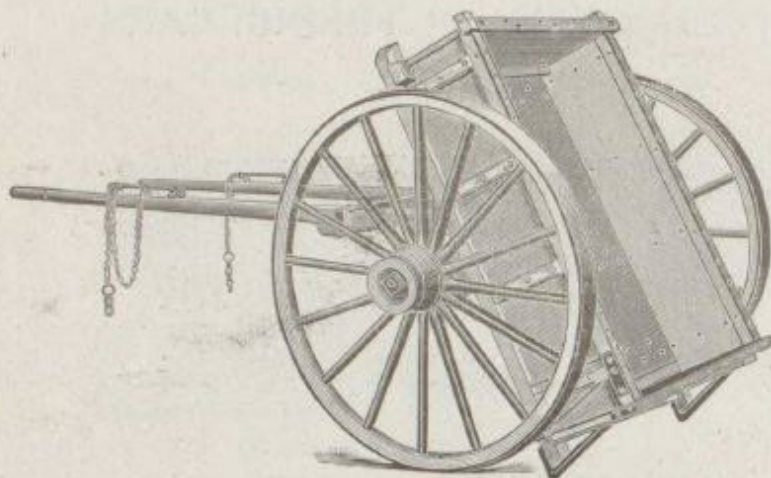


Fig. 350.

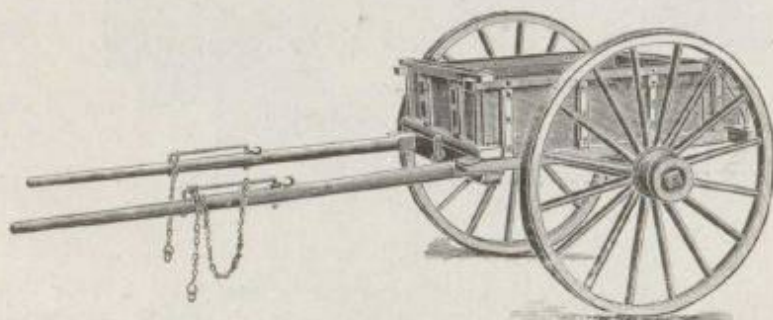


Fig. 351.

CONTRACTORS' DUMP CART No. 1

These are the strongest and best carts made.

Steel axles, $2\frac{1}{4}$ in. square.

Wheels, 54 in. in diameter; 16 spokes; tires, $\frac{1}{2} \times 3\frac{1}{2}$.

Dimensions of bed: 5 ft. long, 3 ft. 9 in. wide, 14 in. deep. Weight, 750 lbs.

Shafts very heavy, 6 ft. 9 in. long, fastened to bed by $\frac{1}{2}$ -in. rod passing through